

Project Title:	Mapping the Human Toxome by Systems Toxicology
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Publication Title	Authors	Journal (Pub date)	Volume/Page	PubMed Link
3D - a new dimension of in vitro research.	Hartung, Thomas	Adv Drug Deliv Rev (2014 Apr)	69-70 / vi	PubMed Citation
Application of the TGx-28.65 transcriptomic biomarker to classify genotoxic and non-genotoxic chemic ...	Yauk, Carole L; Buick, Julie K; Williams, Andrew; Swartz, Carol D; Recio, Leslie; Li, Heng-Hong; Fornace Jr, Albert J; Thomson, Errol M; Aubrecht, Jiri	Environ Mol Mutagen (2016 May)	57 / 243-60	PubMed Citation
Comparison of toxicogenomics and traditional approaches to inform mode of action and points of depar ...	Moffat, Ivy; Chepelev, Nikolai L; Labib, Sarah; Bourdon-Lacombe, Julie; Kuo, Byron; Buick, Julie K; Lemieux, France; Williams, Andrew; Halappanavar, Sabina; Malik, Amal I; Luijten, Mirjam; Aubrecht, Jiri; Hyduke, Daniel R; Fornace Jr, Albert J; Swartz, Carol D; Recio, Leslie; Yauk, Carole L	Crit Rev Toxicol (2015 Jan)	45 / 1-43	PubMed Citation
Development of a toxicogenomics signature for genotoxicity using a dose-optimization and informatics ...	Li, Heng-Hong; Hyduke, Daniel R; Chen, Renxiang; Heard, Pamela; Yauk, Carole L; Aubrecht, Jiri; Fornace Jr, Albert J	Environ Mol Mutagen (2015 Jul)	56 / 505-19	PubMed Citation
Developmental neurotoxicity - challenges in the 21st century and in vitro opportunities.	Smirnova, Lena; Hogberg, Helena T; Leist, Marcel; Hartung, Thomas	ALTEX (2014)	31 / 129-56	PubMed Citation
Estradiol Exposure Differentially Alters Monolayer versus Microtissue MCF-7 Human Breast Carcinoma C ...	Vantangoli, Marguerite M; Madnick, Samantha J; Wilson, Shelby; Boekelheide, Kim	PLoS One (2016)	11 / e0157997	PubMed Citation

Genetic variability in a frozen batch of MCF-7 cells invisible in routine authentication affecting c ...	Kleensang, Andre; Vantangoli, Marguerite M; Odwin-DaCosta, Shelly; Andersen, Melvin E; Boekelheide, Kim; Bouhifd, Mounir; Fornace Jr, Albert J; Li, Heng-Hong; Livi, Carolina B; Madnick, Samantha; Maertens, Alexandra; Rosenberg, Michael; Yager, James D; Zhaog, Liang; Hartung, Thomas	Sci Rep (2016 Jul 26)	6 / 28994	PubMed Citat
Immunotoxicology: challenges in the 21st century and in vitro opportunities.	Hartung, Thomas; Corsini, Emanuela	ALTEX (2013)	30 / 411-26	PubMed Citat
Integrated testing strategies for safety assessments.	Hartung, Thomas; Luechtefeld, Tom; Maertens, Alexandra; Kleensang, Andre	ALTEX (2013)	30 / 3-18	PubMed Citat
Integration of metabolic activation with a predictive toxicogenomics signature to classify genotoxic ...	Buick, Julie K; Moffat, Ivy; Williams, Andrew; Swartz, Carol D; Recio, Leslie; Hyduke, Daniel R; Li, Heng-Hong; Fornace Jr, Albert J; Aubrecht, Jiri; Yauk, Carole L	Environ Mol Mutagen (2015 Jul)	56 / 520-34	PubMed Citat
Look back in anger - what clinical studies tell us about preclinical work.	Hartung, Thomas	ALTEX (2013)	30 / 275-91	PubMed Citat
Mapping the human toxome by systems toxicology.	Bouhifd, Mounir; Hogberg, Helena T; Kleensang, Andre; Maertens, Alexandra; Zhao, Liang; Hartung, Thomas	Basic Clin Pharmacol Toxicol (2014 Jul)	115 / 24-31	PubMed Citat
MCF-7 Human Breast Cancer Cells Form Differentiated Microtissues in Scaffold-Free Hydrogels.	Vantangoli, Marguerite M; Madnick, Samantha J; Huse, Susan M; Weston, Paula; Boekelheide, Kim	PLoS One (2015)	10 / e0135426	PubMed Citat
Mechanistic validation.	Hartung, Thomas; Hoffmann, Sebastian; Stephens, Martin	ALTEX (2013)	30 / 119-30	PubMed Citat
Metabolomic network analysis of estrogen-stimulated MCF-7 cells: a comparison of overrepresentation ...	Maertens, Alexandra; Bouhifd, Mounir; Zhao, Liang; Odwin-DaCosta, Shelly; Kleensang, Andre; Yager, James D; Hartung, Thomas	Arch Toxicol (2016 Apr 2)	/	PubMed Citat

Metabolomics in toxicology and preclinical research.	Ramirez, Tzutzuy; Daneshian, Mardas; Kamp, Hennicke; Bois, Frederic Y; Clench, Malcolm R; Coen, Muireann; Donley, Beth; Fischer, Steven M; Ekman, Drew R; Fabian, Eric; Guillou, Claude; Heuer, Joachim; Hogberg, Helena T; Jungnickel, Harald; Keun, Hector C; Krennrich, Gerhard; Krupp, Eckart; Luch, Andreas; Noor, Fozia; Peter, Erik; Riefke, Bjoern; Seymour, Mark; Skinner, Nigel; Smirnova, Lena; Verheij, Elwin; Wagner, Silvia; Hartung, Thomas; van Ravenzwaay, Bennard; Leist, Marcel	ALTEX (2013)	30 / 209-25	PubMed Citat
Morphologic effects of estrogen stimulation on 3D MCF-7 microtissues.	Vantangoli, Marguerite M; Wilson, Shelby; Madnick, Samantha J; Huse, Susan M; Boekelheide, Kim	Toxicol Lett	248 / 1-8 (2016 Apr 25)	PubMed Citat
MPTP's pathway of toxicity indicates central role of transcription factor SP1.	Maertens, Alexandra; Luechtefeld, Thomas; Kleensang, Andre; Hartung, Thomas	Arch Toxicol	89 / 743-55 (2015 May)	PubMed Citat
Quality assurance of metabolomics.	Bouhifd, Mounir; Beger, Richard; Flynn, Thomas; Guo, Lining; Harris, Georgina; Hogberg, Helena; Kaddurah-Daouk, Rima; Kamp, Hennicke; Kleensang, Andre; Maertens, Alexandra; Odwin-DaCosta, Shelly; Pamies, David; Robertson, Donald; Smirnova, Lena; Sun, Jinchun; Zhao, Liang; Hartung, Thomas	ALTEX (2015)	32 / 319-26	PubMed Citat
Review: toxicometabolomics.	Bouhifd, Mounir; Hartung, Thomas; Hogberg, Helena T; Kleensang, Andre; Zhao, Liang	J Appl Toxicol	33 / 1365-83 (2013 Dec)	PubMed Citat

Systems Toxicology: The Future of Risk Assessment.	Sauer, John Michael; Hartung, Thomas; Leist, Marcel; Knudsen, Thomas B; Hoeng, Julia; Hayes, A Wallace	Int J Toxicol	34 / 346-8	PubMed Citat
t4 workshop report: Pathways of Toxicity.	Kleensang, Andre; Maertens, Alexandra; Rosenberg, Michael; Fitzpatrick, Suzanne; Lamb, Justin; Auerbach, Scott; Brennan, Richard; Crofton, Kevin M; Gordon, Ben; Fornace Jr, Albert J; Gaido, Kevin; Gerhold, David; Haw, Robin; Henney, Adriano; Ma'ayan, Avi; McBride, Mary; Monti, Stefano; Ochs, Michael F; Pandey, Akhilesh; Sharan, Roded; Stierum, Rob; Tugendreich, Stuart; Willett, Catherine; Wittwehr, Clemens; Xia, Jianguo; Patton, Geoffrey W; Arvidson, Kirk; Bouhifd, Mounir; Hogberg, Helena T; Luechtefeld, Thomas; Smirnova, Lena; Zhao, Liang; Adeleye, Yeyejide; Kanehisa, Minoru; Carmichael, Paul; Andersen, Melvin E; Hartung, Thomas	ALTEX	31 / 53-61	PubMed Citat
The Human Toxome Collaboratorium: A Shared Environment for Multi-Omic Computational Collaboration wi ...	Fasani, Rick A; Livi, Carolina B; Choudhury, Dipanwita R; Kleensang, Andre; Bouhifd, Mounir; Pendse, Salil N; McMullen, Patrick D; Andersen, Melvin E; Hartung, Thomas; Rosenberg, Michael	Front Pharmacol	6 / 322	PubMed Citat
The human toxome project.	Bouhifd, Mounir; Andersen, Melvin E; Baghdikian, Christina; Boekelheide, Kim; Crofton, Kevin M; Fornace Jr, Albert J; Kleensang, Andre; Li,	ALTEX	32 / 112-24	PubMed Citat

	Henghong; Livi, Carolina; Maertens, Alexandra; McMullen, Patrick D; Rosenberg, Michael; Thomas, Russell; Vantangoli, Marguerite; Yager, James D; Zhao, Liang; Hartung, Thomas		
Transcriptional and metabolic adaptation of human neurons to the mitochondrial toxicant MPP(+).	Krug, A K; Gubtier, S; Zhao, L; Pöltl, D; Kullmann, C; Ivanova, V; Förster, S; Jagtap, S; Meiser, J; Leparc, G; Schildknecht, S; Adam, M; Hiller, K; Farhan, H; Brunner, T; Hartung, T; Sachinidis, A; Leist, M	Cell Death Dis (2014)	5 / e1222 PubMed Citat
Ultrasensitive response motifs: basic amplifiers in molecular signalling networks.	Zhang, Qiang; Bhattacharya, Sudin; Andersen, Melvin E	Open Biol (2013 Apr)	3 / 130031 PubMed Citat